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# METHOD FOR COMPUTER-AIDED LAYOUT OF MANUFACTURING CELLS

## ABSTRACT OF THE DISCLOSURE

A computer assisted method is disclosed for making an optimized layout of a manufacturing cell to be used, for example, to locate, hold and process workpieces, such as in robotic welding of an assembly of stamped sheet metal parts. The items to be processed and employed in the cell are identified by physical structure and kinematic characteristics and given an initial location to start the process. Further movements of the parts toward attraction points and away from repelling points are evaluated on the computer by an optimization program to arrive at an optimized cell layout.